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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/775,274	0	1/31/2001	Shai Mohaban	60002-0505	7220
29989	7590	12/28/2004		EXAMINER	
		MO TRUONG &	MILLS, DONALD L		
2055 GATEWAY PLACE SUITE 550 SAN JOSE, CA 95110				ART UNIT	PAPER NUMBER
				2662	
				DATE MAILED: 12/28/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/775,274	MOHABAN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Donald L Mills	2662				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. of period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period irre to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	☐ Responsive to communication(s) filed on 20 August 2004.						
2a)⊠	This action is <b>FINAL</b> . 2b) Th	is action is non-final.	V.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)⊠	Claim(s) 1-28 and 31-35 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) 15 and 21 is/are allowed.  Claim(s) 1-14, 16-20, 22-28 and 31-35 is/are rejected.  Claim(s) is/are objected to.						
Applicat	ion Papers						
9)[	The specification is objected to by the Examin	ner.					
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)[	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (	under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892)	4) Interview Summary					
3) 🔲 Infori	ee of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4, 7-11, 28, and 31-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (US 6,389,038 B1), hereinafter referred to as Goldberg, in view of O'Dowd (US 5,235,595).

Regarding claims 1, 31, and 33-35, Goldberg discloses a method for combing packets into a SuperPacket to improve the utilization of a channel, which comprises:

Aggregating two or more media packets from the two or more concurrent calls originating from one or more source end points into an aggregated media payload (Referring to Figure 3, MUX 230 combines the packets and sends them as a single larger packet containing the voice for all 25 channels, supporting multiple concurrent calls from the endpoints. See column 3, lines 49-51.)

Re-packetizing the aggregated media payload using a single aggregated header to form an aggregated media packet (Referring to Figure 3, each superpacket contains 8 control bytes. see column 4, line 51.)

Forwarding the aggregated media packet to a next hop in the packet-switched network (Referring to Figure 3, MUX 230 forwards the superpacket to router 210.)

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Goldberg does not disclose forwarding in response to a timer reaching a non-zero maximum allowed delay time value.

O'Dowd teaches a packet switch which comprises a hold FIFO 104 implemented as 16-bit multilevel pipeline registers having a variable delay of between one and four cycles (timer reaching a non-zero maximum allowed delay) (Referring to Figure 5 and column 15, lines 14-17.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the delay FIFO of O'Dowd in the system of Goldberg. One of ordinary skill in the art at the time the invention was made would have been motivated to do so in order to provide a contention free media while an outgoing packet is being transmitted.

Regarding claim 2, the primary reference further teaches de-aggregating the aggregated media payload for one or more destination endpoints by separating the aggregated media payload to result in creating and sending restored copies of the two or more media packets, each media packet corresponds to one of the two or more concurrent calls (Referring to Figure 3, MUX 230 disassembles SuperPackets, which results in sending the restored packets which are the calls placed by the endpoints. See column 5, lines 42-43.)

Regarding claim 3, the primary reference further teaches one or more headers of each media packet (Referring to Figure 3, each UDP/IP packet has its own UDP/IP header. See column 3, line 10.)

Regarding claim 4, the primary reference further teaches the two or more media packets are Real-Time protocol (RTP) packets (Referring to Figure 3, the packets are voice over IP packets. See column 2, lines 63-64.)

Regarding claim 7, the primary reference further teaches forming the aggregated media payload according to an aggregation protocol for aggregating the two or more media packets (Referring to Figure 3, each SuperPacket contains 8 control bytes, which contains a 4 bit sequence number for frame loss detection. See column 4, lines 51-53.)

Regarding claim 8, the primary reference further teaches forming the aggregated media payload based on an aggregated media packet format for each aggregated media packet wherein the aggregated media packet format comprises a version field indicating a version of the aggregation protocol (Referring to Figure 3, two bits per channel of the overhead indicate the number of regular packets that are consolidated into the SuperPacket. See column 4, lines 55-56.)

Regarding claim 9, the primary reference further teaches forming the aggregated media payload based on an aggregated media packet format for each aggregated media packet wherein the aggregated media packet format comprises a placeholder field that reserves packet space for future use (Referring to Figure 3, 4 bits are reserved of the SuperPacket header. See column 4, line 53.)

Regarding claim 10, the primary reference further teaches forming the aggregated media payload based on an aggregated media packet format for each aggregated media packet wherein the aggregated media packet format comprises a sequence number field that is incremented for each aggregated media packet and is used to detect media packet loss (Referring to Figure 3, the first 4 bytes of the SuperPacket contain a 4 bit sequence number for frame loss detection. See column 4, lines 51-53.)

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Regarding claim 11, the primary reference further teaches forming the aggregated media payload based on an aggregated media packet format for each aggregated media packet wherein the aggregated media packet format comprises a trunk ID field that uniquely identifies a corresponding trunk (Referring to Figure 3, each UDP/IP packet has its own UDP/IP header with a destination address. See column 3, lines 10-11.)

Regarding claim 28, the primary reference further teaches the two or more media packets are received while traversing a common sub-route (Referring to Figure 3, the packets are routed to MUX 230 traversing the same link from router 210.)

Regarding claim 31, as explained above in the rejection of claim 1, Goldberg and O'dowd disclose all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose transmitting the aggregated media packet when a maximum allowed delay time value is reached.

Goldberg teaches combining packets into a SuperPacket and sending them out immediately (See column 7, lines 19-20.) O'Dowd teaches a packet switch which comprises a hold FIFO **104** implemented as 16-bit multilevel pipeline registers having a variable delay of between one and four cycles (timer reaching a non-zero maximum allowed delay) (Referring to Figure 5 and column 15, lines 14-17.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the delay FIFO of O'Dowd in the system of Goldberg. One of ordinary skill in the art at the time the invention was made would have been motivated to do so in order to provide a contention free media while an outgoing packet is being transmitted.

Regarding claim 32 as explained above in the rejection of claim 1, Goldberg and O'dowd disclose all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose using the maximum allowed delay time value for forwarding the aggregated media packet; starting a count down for the maximum allowed delay time value when a first media packet arrives for aggregation; and aggregating subsequent media packets that arrive before the maximum allowed delay time value is reached.

Goldberg teaches combining packets into a SuperPacket and sending them out immediately (See column 7, lines 19-20.) O'Dowd teaches a packet switch which comprises a hold FIFO **104** implemented as 16-bit multilevel pipeline registers having a variable delay of between one and four cycles (timer reaching a non-zero maximum allowed delay) (Referring to Figure 5 and column 15, lines 14-17.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the delay FIFO of O'Dowd in the system of Goldberg. One of ordinary skill in the art at the time the invention was made would have been motivated to do so in order to provide a contention free media while an outgoing packet is being transmitted.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 5, 12, 14, 16, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (US 6,389,038 B1), hereinafter referred to as Goldberg, in view of O'Dowd (US 5,235,595), further in view of Vargo et al. (US 6,477,164 B1), hereinafter referred to as Vargo.

Regarding claim 5 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further teaches encapsulating the two or more segments with the single aggregated header (Referring to Figure 3, packets are combined into a superpacket which contains 8 control bytes. see column 4, line 51.)

Goldberg odes not disclose compressing an IP header and a UDP header of each RTP packet to form a corresponding uncompressed RTP segment.

Vargo teaches creating a transmux voice packet 144 by striping off the destination transmux address 308 from the gateway subpackets 302.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the real-time data transmission of Vargo in the system of Vargo. One of ordinary skill in the art would have been motivated to do so in order to minimize the transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added benefit is the reduction in discontinuous and choppy sounding conversations.

Regarding claim 12 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further teaches a context ID field indicating a session context ID for the segment (Referring to Figure 3, the UDP/IP has its own UDP/IP header which by definition comprises an 8-bit type of service field.)

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Goldberg does not disclose forming the aggregated media payload based on an uncompressed Real-Time Protocol segment format for each uncompressed Real-Time Protocol segment of the two or more media packets.

Vargo teaches creating a transmux voice packet 144 by striping off the destination transmux address 308 from the gateway subpackets 302.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the real-time data transmission of Vargo in the system of Vargo. One of ordinary skill in the art would have been motivated to do so in order to minimize the transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added benefit is the reduction in discontinuous and choppy sounding conversations.

Regarding claim 14 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further teaches the two or more media packets comprising a placeholder field for future use (Referring to Figure 3, 4 bits are reserved of the SuperPacket header. See column 4, line 53.)

Goldberg does not disclose forming the aggregated media payload based on an uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol segment of the two or more media packets.

Vargo teaches creating a transmux voice packet **144** by striping off the destination transmux address **308** from the gateway subpackets **302**.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the real-time data transmission of Vargo in the system of Vargo. One of ordinary skill in the art would have been motivated to do so in order to minimize the

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transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added benefit is the reduction in discontinuous and choppy sounding conversations.

Regarding claim 16 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses including a full length field containing a length of a Real-Time Protocol packet that corresponds to the Real-Time Protocol Segment (Referring to Figure 3, the UDP/IP has its own UDP/IP header which by definition comprises data field which corresponds to the length of the packet payload.)

Goldberg does not disclose forming the aggregated media payload based on an uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol segment of the two or more media packets.

Vargo teaches creating a transmux voice packet 144 by striping off the destination transmux address 308 from the gateway subpackets 302.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the real-time data transmission of Vargo in the system of Vargo. One of ordinary skill in the art would have been motivated to do so in order to minimize the transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added benefit is the reduction in discontinuous and choppy sounding conversations.

Regarding claim 18 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses a padding field that aligns an end of the Real-Time Protocol segment with a next four-byte

boundary (Referring to Figure 3, each superpacket contains 8 control bytes which separates each SuperPacket. see column 4, line 51.)

Goldberg does not disclose forming the aggregated media payload based on an uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol segment of the two or more media packets.

Vargo teaches creating a transmux voice packet **144** by striping off the destination transmux address **308** from the gateway subpackets **302**.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the real-time data transmission of Vargo in the system of Vargo. One of ordinary skill in the art would have been motivated to do so in order to minimize the transmission latency of the superpacket as taught by Vargo (See column 2, lines 3-6.) An added benefit is the reduction in discontinuous and choppy sounding conversations.

5. Claims 6, 13, 17, 19, 20, and 22-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (US 6,389,038 B1), hereinafter referred to as Goldberg, in view of O'Dowd (US 5,235,595), further in view of Koodli (US 6,608,841 B1).

Regarding claim 6 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further teaches encapsulating the two or more segments with the single aggregated header (Referring to Figure 3, packets are combined into a superpacket which contains 8 control bytes. see column 4, line 51.)

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Goldberg does not disclose compressing an IP header, a UDP header, and an RTP header of each RTP packet to form a corresponding compressed RTP segment.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce headeroverhead resulting in a compressed or uncompressed RTP datagram (See column 6, lines 33-34.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg. One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 13 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose forming the aggregated media payload based on an uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol segment of the two or more media packets that comprises a compression bit indicating whether the uncompressed Real-Time Protocol segment is uncompressed.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in an uncompressed or compressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg. One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 17 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose forming the aggregated media payload based on an uncompressed Real-Time Protocol segment format for each uncompressed Real-Time protocol segment of the two or more media packets that comprises a Real-Time Protocol payload and a Real-Time Protocol header corresponding to a Real-Time Protocol packet that in turn corresponds to the uncompressed Real-Time Protocol segment.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in an uncompressed or compressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 19 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses a context ID field indicating a session context ID for the Real-Time Protocol segment (Referring to Figure 3, the UDP/IP has its own UDP/IP header which by definition comprises an 8-bit type of service field.)

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Goldberg does not disclose forming the aggregated media payload based on a compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 20 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose forming the aggregated media payload based on an compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets that comprises a Real-Time Protocol header extension bit indicating whether a Real-Time Protocol header extension appears in the compressed Real-Time protocol segment.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 22 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses comprising a Real-Time Protocol header marker bit (Referring to Figure 3, each SuperPacket contains 8 control bytes, the first bit indicating the beginning of the control byte sequence. See column 4, line 51.)

Goldberg does not disclose forming the aggregated media payload based on a compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 23 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses

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including a full length field containing a length of a Real-Time Protocol packet that corresponds to the Real-Time Protocol Segment (Referring to Figure 3, the UDP/IP has its own UDP/IP header which by definition comprises data field which corresponds to the length of the packet payload.)

Goldberg does not disclose forming the aggregated media payload based on a compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 24 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose forming the aggregated media payload based on a compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets that comprises a sequence number field carrying a Real-Time Protocol header sequence number.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.) Koodli further teaches a sequence field indicating the Real-Time Protocol header sequence (See column 10, line 31.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 25 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose forming the aggregated media payload based on a compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets that comprises a timestamp field carrying a Real-Time Protocol header timestamp.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.) Koodli further teaches a timestamp field which corresponds to a Real-Time Protocol header timestamp (Refer to Figure 4 and see column 10, line 54.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

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Regarding claim 26 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim).

Goldberg does not disclose forming the aggregated media payload based on a compressed Real-Time Protocol segment format for each compressed Real-Time protocol segment of the two or more media packets that comprises a Real-Time Protocol payload and a Real-Time Protocol header corresponding to a Real-Time Protocol packet that in turn corresponds to the compressed Real-Time Protocol segment.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet type field which identifies the type of the packet, compressed header or full header (See column 10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Regarding claim 27 as explained above in the rejection statement of claim 1, Goldberg discloses all of the claim limitations of claim 1 (parent claim). Goldberg further discloses a padding field that aligns an end of the Real-Time Protocol segment with a next four-byte boundary (Referring to Figure 3, each superpacket contains 8 control bytes which separates each SuperPacket. see column 4, line 51.)

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Goldberg does not disclose forming the aggregated media payload based on a

compressed Real-Time Protocol segment format for each uncompressed Real-Time protocol

segment of the two or more media packets.

Koodli teaches compressing headers of IP/UDP/RTP datagrams to reduce header

overhead resulting in a compressed or uncompressed RTP segment as indicated by the packet

type field which identifies the type of the packet, compressed header or full header (See column

10, lines 33-35.)

It would have been obvious to one of ordinary skill in the art at the time the invention

was made to implement the header compression method of Koodli in the system of Goldberg.

One of ordinary skill in the art would have been motivated to do so in order to increase quality of

VoIP service for bandwidth limited links by reducing the amount of redundant overhead.

Allowable Subject Matter

6. Claims 15 and 21 are allowed.

Response to Arguments

7. Applicant's arguments with respect to claims 1-28 and 31-35 have been considered but

are moot in view of the new grounds of rejection.

Conclusion

8. Applicant's amendment necessitated the new grounds of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald L Mills whose telephone number is 571-272-3094. The examiner can normally be reached on 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donald L Mills

December 22, 2004

HASSAN KIZOU SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600